

KISTER, E.G., ZLOTNIK, D.Ye.

Thermal stability and stabilization of mud suspensions. Trudy
VNIIBT no.8:19-26 '63.

Oxyethylated surface-active reagents for clay muds. Ibid.:27-35
(MIRA 17:9)

KISTER, E.G.; MARTIROSOV, N.Ya.; NIKITIN, Yu.Z.; GOSTEV, B.S.

Using chromates to increase the thermal stability of clay
muds. Neft. khoz. 42 no.7:23-26 J1 '64. (MIRA 17:8)

KISTER, E.G.; LERNER, R.A.; ALIKIN, S.I.; GRAF, E.K.; MARIATOL'SKIY, N.A.

Using oxidized petrolatum to improve the lubricating qualities of
drilling muds. Buranle no.4:25-28 '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut burovoy tekhniki
i Porskiiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta
burovoy tekhniki.

KISTER, E.G.; ZLOCHNIK, D.Ye.; MAKAROVA, L.I.; DEMENT'YEVA, G.V.; MARIAMPOL'SKIY,
M.A.

Treating drilling fluids with chromates. Patent no.4114-17 '64.

(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut barovoy tekhniki;
Stavropol'skiy filial Gruzinskogo naftyanogo nauchno-issledova-
tel'skogo instituta i trekh "Stavropol' neftegazrazvedka".

KISTER, E.G.; ZLOTNIK, D.Ye.; POPKOVA, L.M.; NAZAROVA, V.D.; SHASKOL'-
SKAYA, T.P.

Combination chromate reagents for flushing fluids. Burenia
no.9:17-18 '65. (MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut burovoy
tekhniki.

Kister, E. I.

AID P - 2091

Subject : USSR/Mining

Card 1/2 Pub. 78 - 4/24

Authors : Kister, E. T. and Zlotnik, D. Ye.

Title : ~~Measurements of the static shearing stress of mud fluids~~

Periodical: Neft. khoz., v.33, no.4, 16-19, Ap 1955

Abstract : Measurements of the strength of structures which develop in mud fluids and which are determined by the ultimate statical shearing stresses are necessary for determination of the characteristics of their consistency, thixotropy, viscosity and other important physicochemical and technical properties. True values of those statical shearing stresses can be determined only by measurements of simple shear at constant and ultimate rates of deformation. These conditions are achieved in tangential plate sliding instruments or in rotational instruments with coaxial cylinders. The author analyses the results

Neft. khoz., v.33, no.4, 16-19, Ap 1955

AID P - 2091

Card 2/2 Pub. 78 - 4/24

obtained by use of rotational instruments of Russian
production and ~~criticizes~~ some of their designs.

Institution: Names of some Russian scientific workers are mentioned.

Submitted : No date

POTEMKIN, K.N.; GREBNEV, S.K. Prinimali uchastiye: KIRSANOV, A.K.;
BACHEVER, R.V.; IL'CHENKO, R.L.; POLFSHKO, Ye.S.; KISTINA, A.I.

Quantitative determination of magnetite by a gravimetric
magnetic method. Zhur. prikl. khim. 36 no.5: 981-988 My '63.
(MIRA 16:8)

(Magnetite) (Magetochemistry)

POTEMKIN, K.N. (Simferopol'). *Prilimnaya zhurnaly*. 1961. A.1.

Formation of wdsite during low-temperature reduction of
hematite and magnetite. Izv. AN SSSR Met. i gorn. delo no. 3:
17-21 My-Je '64 (MIRA 1964)

VASILEVSKAYA, N.L.; KISTINO, M.G.

Significance of certain hematological indexes in the early diagnosis of erythroblastosis fetalis. Vop. okh. mat. i det. 3 no.1:37-41 Ja-F '59.
(MIRA 12:2)

1. Iz kliniko-dagnosticheskoy laboratorii (zav. - starshiy nauchnyy sotrudnik N.L. Vasilevskaya) i otdeleniya novoroz dennykh (nauchnyy rukovoditel' - prof. A.F. Tur) Instituta akusherstva i ginekologii AMN SSSR (dir. - prof. P.A. Belshapko).
(ERYTHROBLASTOSIS FETALIS)

ARSEN'YEVA, M.O.; KISTING, M.G.

Treatment of posthemorrhagic anemias in female patients with new
hemostimulating preparations. Akt.vop.pereb.krovi no.7:198-202 '59.
(MIRA 13:1)

1. Institut akusherstva i ginekologii AMN SSSR (direktor - chlen-
korrespondent AMN SSSR prof. P.A. Beloshapko).
(BLOOD AS FOOD OR MEDICINE) (ANEMIA)

ARSEN'YEVA, M.O.; KISTINO, M.O.

New hemostimulating preparations in the treatment of posthemorrhagic anemias in gynecological patients [with summary in English]. Akush. i gin. 35 no.1:71-73 Ja-F '59. (MIRA 12:2)

1. Iz otdeleniya operativnoy ginekologii (sav. - doktor med. nauk Ye. P. Maysel') i kliniko-diagnosticskoy laboratorii (sav. - kand. med. nauk M.L. Vasilevskaya) Instituta akusherstva i ginekologii ANU SSSR (dir. - chlen-korrespondent ANU SSSR prof. P.A. Beloshapko).

(MENORRHAGIA AND METRORRHAGIA, compl.

anemia in funct. uterine hemorrh., plasma substitute ther. (Rus))

(PLASMA SUBSTITUTES, ther. use,

anemias in funct. uterine hemorrh. (Rus))

(ANEMIA, etiol. & pathogen.

funct. uterine hemorrh., plasma substitute ther. (Rus))

RAINISH, M.S.; KISTINO, M.G.

Is it possible to diagnose hemolytic disease by means of the Kondi
Jacobescu method performed in utero? Akush. i gin. 36 no.3:81-83
My-Je '60. (MIRA 13:12)
(ERYTHROBLASTOSIS FETAL)

KIS TOTH, Tamas, Bedo Albert-dijas

Prime cost of nurseries of seedlings. Erdo 13 no.12:572-574 D '64.

1. Head, Nursery of Seedlings, Tolnasaiget.

KISTORYAN, Kh., kand.tekhn.nauk

Air purification in sprinkled packed filters. Prom.Arm. 6
no.1:29-31 Ja '63. (MIRA 16:4)

1. Nauchno-issledovatel'skiy gornometallurgicheskiy institut
Soveta narodnogo khozyaystva Armyanskoy SSR.
(Dust collectors)

KISTORYAN, Kh.A., Cand Tech Sci -- (diss) "Accumulation of heat
in solar heating devices." Mos, 1959, 14 pp with graphs (Acad
Sci USSR. Power Engineering Inst in G.M. Krzhizhanovskiy) 150
copies (KL, 36-59, 115)

K.

- 46 -

KISTORYAN, Kh.A.

Calculating crystallization in chemical accumulators for solar heating installations. Izv.AN Arm.SSR.Ser.tekh.nauk. 12 no.1: 45-52 '59. (MIRA 12:4)

1. Energeticheskiy institut imeni O.M.Krshishanovskogo AN SSSR.
(Heat regenerators) (Solar heating)

5.1150

26217
S/173/60/G13/005/003/004
A163/A133

1

AUTHOR: Kintoryan, Kh. A.

TITLE: Experimental investigation of the solidification process

PERIODICAL: Akademiya nauk Armyanskoy SSR. Izvestiya. Seriya tekhnicheskikh nauk, v. 13, no. 5, 1960, 57 - 60

TEXT: The article deals with experimental investigations of the solidification process. The purpose of the article is to obtain simple formulae describing the process of crystallization, and to compare these formulae with the results of experiments carried out on the solidification of decahydrate of sodium sulfate ($\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$) in a cylinder with the aid of a testing installation. The author selects the equation of Fourier [Ref. 5: Kusmoryan, Kh. A. "Izvestiya AN Armyanskoy SSR", ser. tekhnicheskikh nauk, v. XII, no. 1, 1959] as a basis for further consideration and discusses the solidification of a melt in a cylindrical vessel. The thermal resistance of the vessel wall may be disregarded and the temperature of the cooling liquid assumed as $t_{zh} = \text{const}$. It is further assumed that there is no excess heat and that the temperature of the fusion is equal to the temperature of the crystallization t_{liq} . A diagram shows the solidification of the cylinder.

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A163/A133

Experimental investigation of the solidification process

It is assumed that a solid skin (thickness ξ) developed on the cylinder wall in the course of time Δt , and that the elementary cylindrical layer (thickness dr) has been isolated. Regarding the process as a stationary one in the course of time Δt , the equation of Fourier is as follows:

$$q_r = -\lambda \frac{d\theta}{dr} \quad (1).$$

The heat flow arises as a result of a separation of the latent solidification heat q_k . In this case

$$q_r = \frac{q_k \xi}{2\Delta t} \frac{r^2 - r_1^2}{r} \quad (2).$$

When comparing (1) with (2), the following differential equation of the temperature field in the solid layer is obtained:

$$-d\theta = \frac{q_k \xi}{2\lambda \Delta t} \frac{r^2 - r_1^2}{r} dr \quad (3).$$

The boundary conditions of the problem are:

$$\left. \begin{aligned} \tau = 0, \quad r = R, \quad \theta = 0. \\ \tau = \Delta t, \quad r = r_1, \quad \theta = \theta_k = z_k - z_{st}. \\ q_R = \alpha(z_{st} - z_{zh}). \end{aligned} \right\} \quad (4).$$

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Experimental investigation of the solidification process A163/A133

(3) may be now solved as follows:

$$M = A_1 \{ A_2 - (1 - \sigma^2) [A_2 - \ln(1 - \sigma^2)] \}, \quad (5)$$

where ξ = the thickness of the solid skin, m; σ = the relative thickness of the hard skin; R = cylinder radius, m; ΔT = the time, hours; q_k = latent heat, kcal/kg; λ = coefficient of the thermal conductivity of the solid skin, kcal/m·h °C; c = specific heat capacity of the solid phase, kcal/kg °C; α = coefficient of the heat emission, kcal/m²·hour °C; $M = BiNF_0 = \frac{\alpha(Z_k - Z_{zh})}{q_k R}$ = dimensionless solidification time; $A_1 = Bi/4$; $A_2 = 1 + 2Bi$; $Bi = \frac{\alpha R}{\lambda}$ = criterion of Bio; $N = \frac{c(Z_k - Z_{zh})}{b_k}$ = criterion of Kazeyev; and $F_0 = \frac{\alpha \tau}{R^2}$ = criterion of Fourier.

To check formula (5) the experimental data of A. G. Tkachev and G. N. Danilina [Ref. 6: Voprosy teploobmena pri izmenenii agregatnogo sostoyaniya veshchestva (Problems of Heat Exchange During Changes of the State of Aggregation of Substances). Gosenergoizdat, 1953] on the freezing of ice in a cylinder. The coincidence of the theoretical and experimental results may be regarded as fully satisfactory. The author and others carried out tests on the solidification of decahydrate of sodium sulfate in a cylinder. The experimental installation con-

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Experimental investigation of the solidification process A163/A133

sisted of a 150-mm-high cylinder, 80 mm in diameter and placed in a cooling jacket. A thermocouple was placed on the axis at 75 mm height. To measure the temperature changes of the water, laboratory thermometers with a graduation of 0.1°C were used at the inlet and outlet of the jacket. To repeat the tests, the solidified salt in the cylinder was melted by feeding hot water through the jacket. For this purpose, an electrical heat had been used. When comparing the experimental data of a number of authors with formula (5), the greatest discrepancy between these data was noted at $\delta = 1$, i.e. during the final solidification of the volume. The gist of the method consists in the determination of the time of the final solidification τ'_k . This was attained by measuring the temperature of the melt on the cylinder axis. When the inflection point (the solidification of the melt on the cylinder axis) was attained, time τ_k was fixed. Readings were taken every five minutes. The temperature change of the water at the outlet is due to some thermal inertia of the heater through which the cooling water flows. The temperature change of the heated water may be explained by an increase of the thermal resistance of the hard skin. The results obtained are plotted on coordinates. The author concludes by pointing out that, disregarding the physical heat of the solidifying layer, simple formulae were obtained describing the process of crystal-

Card 4/5

KISTOSDURIAN, T.L.

Prevention of agricultural injuries. Sov. med. 18 no.7:42-43
Jl '54. (MIRA 7:8)

1. Is Oktanberyanskoy rayonnoy bol'nitsy Armysanskoy SSR (glavnyy vrach G.O.Badalyan)

(WOUNDS AND INJURIES, prevention and control

*in agriculture)

(AGRICULTURE

*prev. of injuries)

(INDUSTRIAL HYGIENE

*agriculture, prev. of injuries)

KISTOSTURYAN, T. I.

Treating bites of poisonous snakes with magnesium sulfate. Med. paras.
i paras. bol. supplement to no. 1:80 '57. (MIRA 11:1)

1. Is Oktanberyanskoy rayonnoy bol'nitsy.
(VENOM) (MAGNESIUM SULFATE)

KISTOSTURIAN, T. L.: ~~Master~~ ^{MAster} Med Sci (diss) -- "Agricultural injuries in Oktem-
beryanskij Rayon, their prophylaxis, and methods of combatting them". Oktem-
bryan, 1958. 22 pp (Min Health Armenian SSR, Oktembryan Med Union), 200
copies (KL, No 5, 1959, 156)

KISTOSDURIAN, T.L.

Methods for selecting the type of surgery in dilatation of the veins of the spermatic cord. Urologia 23 no.3:26-27 My-Je '58 (MIRA 11:6)

1. Is Oktanbryanskoy rayonnoy bol'nitay (glavnyy vrach. G.G. Ovsep'yan).

(VARICOCELE, surg.
technic, evaluation (Rus))

1-1-1 V-6

AID P - 2711

Subject : USSR/Mining
Card 1/1 Pub. 78 - 8/27
Author : Kistova, V. G.
Title : Economize on metal in prospecting drilling
Periodical : Neft. khoz. v. 33, #6, 21, Je 1955
Abstract : The thickness of casing tubes sent by the supply plant to the drilling site is often greater than that required, which leads to waste of metal.
Institution : None
Submitted : No date

L 1C866-66 ENT(m)/ENP(t)/ENP(b) TJP(c) JD/JW

ACC NR: AP5028718

SOURCE CODE: UR/0363/85/001/011/1892/1897

AUTHOR: D'yakonov, L. I.; Kistova, Ye. M.; Maslov, V. M.; Sakharov, B. A.

ORG: Giredmet

TITLE: Study of the transport of GaP during epitaxial growing in a moist hydrogen atmosphere

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 11, 1965, 1892-1897

TOPIC TAGS: gallium compound, phosphide, epitaxial growing

ABSTRACT: A theoretical and experimental study of the kinetic relationships governing the transport of gallium phosphide in epitaxial growing was made in a system where the substrate and source were located close to each other, i. e., the arrangement employed in the sandwich method. The assumptions made by R. F. Lever (*J. Chem. Phys.* 37, 1174, 1962) were checked for the transport of GaP, which in moist hydrogen can be represented as



and found to be correct. A computational formula is derived which shows that the transport velocity is directly proportional to the temperature gradient and square root of the water vapor pressure, and depends almost exponentially on the temperature.

Cord 1/2

UDC: 546.681'101.1:548.55

L 10866-66

ACC NR: AP5028718

The activation energy is equal to one-half of the change in the enthalpy of the above transport reaction. Orig. art. has: 3 figures, 14 formulas.

SUB CODE: 20,11,07/ SUBM DATE: 23Jun65/ ORIG REF: 005/ OTH REF: 008

HW
Card 2/2

KAIYUZHENY, D. K.; KISELEVSKIY, Ya. I.

City Planning - Zone System

Planning and construction of sanitation buffer zones in the Ukraine. Gig. i san., No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1951, 2 Uncl.

LARINA, V.A.; TUTURINA, V.V.; KISTRUSSKAYA, T.V.

Vinylation of coals of the Irkutsk Basin. Izv. Fiz.-khim. nauch.-
issl. inst. Irk. un. 4 no.2:43-55 '59. (MIRA 16:8)

(Irkutsk Basin—Coal) (Vinyl compounds)

LARINA, V.A.; KISTRUSSKAYA, T.V.

Investigation of the Tugmuy and Sosnovo-Ozerskoye coals of the
Buryat A.S.S.R. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un.
5 no.1:50-60 '61. (MIRA 16:8)

(Buryat A.S.S.R. —Coal—Analysis)

25(1)

SOV/146-58-5-17/24

AUTHOR:

Kistrusskiy, S.I., Engineer

TITLE:

Uneven Edges of Stampings

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Priborostroyeniye, 1958, Nr 5, pp 117-123 (USSR)

ABSTRACT:

At the beginning of the article, the author points to the fact that the main deficiency in the punching process is the uneven edge on the surface of working pieces which have been worked on with a stamp. This problem has rarely been investigated in the literature. The article continues to discuss the process in which the uneven edge is created. The experiments were carried out on the usual eccentric press. The investigations took into consideration the influence of the following factors: the tolerance, the working results of the press, and space between the matrix and the stamp. The last two factors determine the width of the so-called uneven edge. The surface of the uneven edge is not always the same. There are part on which the imprint of the stamp can be seen and others on

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Uneven Edges of Stampings

SOV/146-58-5-17/24

which they cannot be seen. The cutting does not always extend to the edge. Figure 1 shows a microphoto (enlargement 441) of the surface in the section of the uneven edge (a - the surface of the cutting; b - the surface of the defect parts). Figure 2 shows a - the uneven edge in cases in which the defect section does not reach to the edge; and b - in cases in which the defect section goes up to the edge (enlarged 2,000 times in the vertical and 100 times in the horizontal direction). The following part of the article describes the origin of the waste which is cut off. If the tolerance becomes wider, the width of the defect section is also increased. The defects are caused by the fact, that the slit which is formed in the last stage of the cutting, changes the direction in which the steel shavings are cut off. The final result of the investigation was as follows: a) The surface of the uneven section is irregular in its micro geometry. There are some sections in which are not touched by the cutting device of the stamp. b) To avoid the uneven edge it is necessary to instal an

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Uneven Edges of Stamping

SOV/146-58-5-17/24

adjustable support on the stamp. There are 7 photographs, 2 graphs and 6 Soviet references.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki
(Leningrad Institute of Fine Mechanics and Optics)

✓

Card 3/3

VALITOV, A.M.-Z.; KISTRUSSKIY, S.I.

Pneumatic draw-in ball chuck. Mashinostroitel' no.3:27 Mr '64.
(KIRA 17:4)

KISIRUSSKIY, S. I., Cand Tech Sci -- (diss) "Research into the finishing process of equipment parts involving the external contour by the method of stamping." Leningrad, 1960. 24 pp with illustrations; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Inst of Precision Mechanics and Optics); 200 copies; price not given; (KL, 23-60, 124)

VALITOV, A. M-2.; KISTENSKIY, S.I.

Technological specifications for multiple machining of parts.
Mashinostroitel' no.8:32-35 Ag '64. (MIRA 17:10)

KISTRUSKIY, V. I. (Eng.)

Shoe Machinery

Rotary drier for footwear. Leg. prom. 12 No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December ¹⁹⁵²~~1953~~, Uncl.

DANIYELIAN, G.M.; KISTRUSSKIY, V.I.

Multilinear conveyor in the cutting-out department of a shoe factory. Leg.prom. 16 no.9:43-46 S '56. (MLRA 9:11)

1. Glavnyy inzhener Bakinskoy obuvnoy fabriki No. 1 imeni A.I. Mikoyana (for Daniyelyan)
(Baku--Shoe industry) (Conveying machinery)

HUNGARY

SZAMOGI, Jozsef, Dr. KOVACS, Ilona, Dr. KISTURAY, Tercz, Dr; Heim Pal Hospital (Heim Pal Korhaz), and Capital City Council, Central Child Hygiene, Methodological Institute of Scientific Research and Advanced Study, Department of Pediatrics and Toxicology (Fovarosi Tanacs Kozponti Gyermekegeszsegugyi, Modszertani Tulomanyos Kutato es Tovabbkepzo Intezet) (chief physician: SZAMOGI, Jozsef, Dr), Budapest.

"Reiter's Syndrome Involving a 9 Year Old Child."

Budapest, Orvosi Hetilap, Vol 108, No 11, 12 Mar 67, pages 508-510.

Abstract: [Authors' Hungarian summary] The case of a 9 year old boy is described who was a hospitalized patient of the authors for 4 months because of polyarthritis, keratoconjunctivitis and urethritis and was under their regular observation for 17 more months after his discharge. The disease was also accompanied by stomatitis, enteritis and various nervous systemic symptoms. On the basis of the symptom complex and the course, the disease is considered to be Reiter's syndrome. Based on literature data and on the case observed, the etiology of the syndrome and its therapeutic possibilities are discussed. 3 Eastern European, 24 Western references.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722910014-5

PIDOPLYCHKO, I.G. [Pidoplichko, I.G.], red.; VOINSTEVENSKIY, P.A. [Voinstvens'kiy, P.A.], doktor biol. nauk zam. otv. red.; KISTYAKIVSKIY, O.B. [Kistiakiva'skiy, O.B.], doktor biol. nauk, red.; MAZHUGA, P.M. [Mazhuga, P.M.], doktor biol. nauk, red.; ABELENTSEV, V.G. [Abelientsev, V.G.], kand. biol. nauk, red.; SHARPILO, L.D., red.

[Terrestrial vertebrates of the Ukraine; ecology, distribution, history of the fauna] Nazemni khrobohti Ukrainy; ekologiya, pozhyrennia, istoriia fauny. Kyiv, Naukova dumka, 1965. 123 p. (MIRA 18:9)

1. Akademiya nauk URSR, Kiev. 2. Chlen-korrespondent Ukr.SSR (for Pidoplichko). 3. Institut zoologii AN Ukr.SSR (for Abelentsev, Voinstvenskiy).

ASKARINA, N.M.; KISTIAKOVSKAYA, M.YU.; LADYGINA, N.F.; EYES, N.R.;
SHCHELOVANOV, N.M., prof.; ZAGIN, I.V., rel.

[Development and upbringing of the bird from birth to
three years of age; Razvitiye i vospitaniye ptitsy ot rozh-
deniya do trekh let. Moskva, Promyshlennost', 1965. 182 p.
(MIRA 18.11)

KISTYAKOVSKAYA, M.Yu.

Stability of visual reactions in children in the first
months of life. Vop.psikhol. 5 no.5:124-133 3-0 '59.
(MIRA 13:3)

1. Institut pediatrii ANU SSSR, Moskva.
(Vision) (Child study)

KISTYAKOVSKAYA, M. Yu.

Development of hand movements in the child during the first half
year of life. Vop. psikhol. 8 no.1:89-100 Ja-P '62. (MIRA 15:4)

1. Institut pediatrii AMN SSSR, Moskva.
(MOVEMENT, PSYCHOLOGY OF) (HAND)

KISTYAKOVSKIY, A.B. [Kistyaki's'kiy, O.B.].

Biological role of polymorphism in the plumage of the ruff
(*Philomachus pugnax* L.). Trudy Inst. zool. AN USSR 2:48-57
'49. (MIRA 11:6)
(Sandpipers) (Color of birds)

KISTYAKOVSKIY, A.B.

Materials on the seogeography of the Pamirs. Nauk.sop.Kiev.ua.9
no.615-58 '50. (MIRA 9:10)
(Pamirs--Seogeography)

AFANAS'YEV, D.Ya.; BILYE, G.I.; ~~KISTYAKOVSKIY, A.B.~~ IGTOV, M.I., laureat
Stalinskoy premii; KONDRATYUK, Ye.M., kandidat biologicheskikh nauk,
otvetstvennyy redaktor; KHEMIROVSKIY, R.M., redaktor; SIVACHENKO,
Ye.K., tekhnicheskii redaktor

[Plant and animal world of the southern Ukraine and the northern
Crimea] Rastitel'nyi i zhivotnyi mir Iuga Ukrainskoi SSR i Severnogo
Kryma. Kiev, Izd-vo Akademii nauk USSR, 1952. 87 p. (MLA 10:2)
(Ukraine--Botany) (Ukraine--Zoology)
(Crimea--Botany) (Crimea--Zoology)

KISTYAKOVSKIY, A. B.

1. ISTOMIN, D. M., KISTYAKOVSKIY, A. B., KISTYAKOVSKIY, A. B.

2. ISTOMIN (100)

4. Crimes - Biology

7. "First an animal life of the southern Ukraine and north-eastern Crimea." Reviewed by
I. I. Istomov, Sov. kin. No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

KISTYAKOVSKIY, A.B.; AGAFONOVA, O.Ya.

Acclimatization of pheasants (*Phasianus colchicus* L.) in the
Ukrainian S.S.R. Nauk.sop.Kiev.un.13 no.12:73-86 '54.(MLRA 9:10)
(Ukraine--Pheasants)

KORNEYEV, Aleksandr Perfir'yevich; KISTIAKOVSKIY, Aleksandr Bogdanovich;
KEMCHENAU, Ya.M., redaktor; VOLKOVA, E.K., ~~redaktor~~ redaktor.

[Textbook of zoogeography] Posibnyk z zoogeografii. Kyiv, Derzh.
uchbovo--pedagog.vyd-vo "Radians'ka shkola," 1956. 134 p. 50 illus.
(Zoogeography) (MLRA 10:4)

KISTIAKOV, N.Y., O.B.

Agricultural importance of shore birds. *Nauch. zap. Kiev. un.* 15
no. 3: 92-112 '56. (MLRA 10:7)
(Ukraine--Limicolae) (Insects. Injurious and beneficial)

RADOCHUK, V.V., otvetstvennyy red.; VOINSTEVENSKIY, M.A., red.; KISTYAKOVSKIY, A.B., red.; KORNENYEV, A.P., red.; SCKUR, I.T., red.; PANKHOSCHUK, V.V., red.; DOBROVOL'SKIY, A.A., red.; GRIB, P.M., khudozhestvenno-tekhn.red.

[Hunting in the Ukraine] Otkhota na Ukraine. Izd. 2-oe. Kiev, Gos. izd-vo sel'khoz. lit-ry USSR, 1957. 325 p. (MIRA 11:2)
(Ukraine--Hunting)

KISTYAKIVSKIY, O.B. , BILANOVSK'KIY, I.D., doktor biologichnykh nauk;
~~redaktor;~~ MAS'YANENKO, V.G., akademik, redaktor; MARKEVICH,
O.P. akademik, redaktor; PIDOPLICHKO, I.G., doktor biologichnykh
nauk, redaktor; SENCHENKO, O.S., redaktor vidavnitstva; SIVA-
CHENKO, E.K., tekhnichnyi redaktor.

[Fauna of the Ukraine; in forty volumes] Fauna Ukrainy; v soroka
tomakh. Red. kolegiia I.D. Bilanovs'kyi i dr. Kyiv, Vyd-vo Akad. nauk
URSR. Vol. 4. [Kistiakiv's'kyi, O.B. Birds; general characteristics
of birds. Gallinaceous birds. Pigeons. Sand grouse. Rails. Cranes.
Bustards. Shore birds. Gulls] Kistiakiv's'kyi, O.B. Ptakhy; sahal'na
kharakterystyka ptakhiv. Kuryni. Holuby. Riabky. Pastushky. Zhuravli.
Drofy. Kulyky. Martyny 1957. 431 p. (MIRA 10:6)
(Birds)

KISTYAKOVSKIY, A.B. [Kistyaki's'kiy, O.B.]

Birds in the region of Kakhovka Reservoir. Zbir. prats' Zool.
muz. AN URSS no.28:20-48 '57. (MIRA 11:5)
(Kakhovka Reservoir Region--Birds)

KISTYAKOVSKIY, Aleksandr Bogdanovich; KORNENYEV, A.P., dotsent, stv.red.;
YANKOVSKAYA, Z.B., red.; KHOKHANOVSKAYA, T.I., tekhred.

[Sexual selection and identifying specific characters in birds]
Polevoi etber i vidovye opoznavatel'nye priznaki i ptits. Kiev,
Izd-vo Kievskogo gos.univ., 1958. 197 p. (MIRA 12:8)
(Birds) (Sex (Biology))

VOINSTVENSKIY, Mikhail Anatoliyevich[Voinstvens'kyi, M.A.];
KISTYAKOVSKIY, Aleksandr Bogdanovich[Kistiaki's'kyi,
O.B.]; NEMCHENKO, Ye.M., red.; SHVCHENKO, L.I., tekhn
red.

[Classification key of birds of the Ukrainian S.S.R.]
Vyznachnyk ptakhiv URSS. Vyd.2. Kyiv, Radians'ka shkola,
1962. 370 p. (MIRA 15:11)

(Ukraine--Birds)

KISTYAKOVSKIY, A.B.; SMOGORZHEVSKIY, L.A.

Boundary of the Chinese avifaunistic complex at the Bureya
River. Nauch. dokl. vys. shkoly; biol. nauki no.3:26-29 '64,
(MIRA 17:8)
1. Rekomendovana kafedroy zoologii pozvonochnykh Kiyevskogo
gosudarstvennogo universiteta im. T.G.Shevchenko.

1. Klyavitskiy, I. I.

Plan of comprehensive work on controlling fish death in rivers. Gidrobiol.
zhurn. 3. no. 3: 53-54, 1975. (MIRA 1976)

2. Klyavitskiy, I. I. *Gidrobiol. zhurn.* 1975, no. 3: 53-54.

100, 101, 102)

"Open Driving Tools." Gen. Tech Sci, Moscow Order of Lenin Higher Center of Engineering Inst. Prof. V. V. Kuzlychev, 1 Mar. 58. 30 lines. 11 cl. page. Moskva, Moscow, 26 Feb. 58.)

SO: 57:1 6, 15 Aug; 1954

KISTYAKOVSKIY, A.Yu., kandidat tekhnicheskikh nauk, zasluzhennyy master
sporta.

Experience building swimming pools. Oor.khos.Mosk. 30 no.5:12-16
My '56. (MLBA 9:8)
(Moscow--Swimming pools)

KISTYAKOVSKIY, A., ^{Yu.} zaslushennyy master sporta

Collapseable swimming pool. Voen.znan. 36 no.5:38-39
Mg '60. (MIRA 13:4)
(Swimming pools)

KIST'YAN, K.A., inzh. (Rostov-na-Donu)

Free vibrations of rectangular compressed and elongated plates.
Insl. po teor. sooruzh. no.8:157-163 '59. (MIRA 12:12)
(Elastic plates and shells--Vibration)

KIST'YAN, K.A. (Rostov-na-Donu)

Determining vibration frequencies of plates lying on a flexible foundation. Prikl. mekh. 1 no.5:131-133 '65. (MIRA 18:7)

1. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo mashinostroyeniya.

KIST'YAN, K.Ya. (Rostov-na-Donu)

Approximate determination of frequencies of plate vibrations.
Prikl.mekh. 5 no.2:215-219 '59. (MIRA 12:9)

1. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo mash-
inostroeniya.
(Elastic plates and shells--Vibration)

KISTYAN, K. Ya

1979

24.4200

S/198/62/008/002/011/011
D299/D301

AUTHOR: Kyst'yan, K.Ya. (Rostov-on-Don)

TITLE: On the approximate calculation of the oscillation frequency of rectangular plates

PERIODICAL: Prykladna mekhanika, v. 8, no. 2, 1962, 219 - 222

TEXT: Two approximate methods are considered for calculating the frequency of oscillations of rectangular isotropic plates, having two opposite sides freely supported. The first is the method of successive approximations, permitting one to reduce the transcendental frequency-equation to an algebraic (secular) equation; this is done by the method of initial parameters. The equations for the first-, second-, and higher approximations are obtained, whose solutions yield approximate values of the frequencies. At each stage, a two-sided estimate is obtained, whose accuracy increases with the order of the equation. Two numerical examples are given which show that the accuracy of determining the fundamental frequency is already high after solving a cubic equation; the accuracy of the second- and third frequencies is sufficient, after solving equations

Card 1/2

On the approximate calculation of ...

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D299/D301

of the fourth- and fifth order. Further, the method of spectral functions is considered. If the approximate values of the coefficients Λ_n of the spectral function (of the secular equation) are known, then it is possible to find S.O. Bernshteyn's numbers B_n by means of the formula

$$B_n = A_1 B_{n-1} - A_2 B_{n-2} + \dots + (-1)^{n+1} n \Lambda_n.$$

By these numbers, it is possible to determine the inequalities which yield two-sided frequency estimates. Thereby, the author obtained sufficiently accurate approximate values for the first three frequencies. There are 1 figure, 2 tables and 3 Soviet-bloc references.

ASSOCIATION: Rostovs'kyy-na-Donu instrytut sil'skohospodars'koho mashynobuduvannya (Rostov-on-Don Agricultural Machine Building Institute)

SUBMITTED: May 3, 1961

Card 2/2

✓

1. KIST'YAN, Ya. O.

2. USSR (600)

4. Gearing

7. A. I. Petrushevich's methods of calculating the durability of gears.
Izv. AN SSSR. Otd. tekhn. nauk no. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 486 - I

BOOK

Author: KIST'YAN, YA. G., Kand. of Tech. Sci. Call No.: AP643366
Full Title: METHODS OF CALCULATING THE STRENGTH OF GEARING
Transliterated Title: Metodika rascheta zubchatykh zatsepleny na prochnost'

PUBLISHING DATA

Originating Agency: Ministry of Transportation Machinery and Heavy-Machine Building. Central Scientific Research Institute of Technology and Machine Building (TsNIITMASH)

Publishing House: State Scientific and Technical Publishing House of Machine-Building and Shipbuilding Literature (Mashgiz)

Date: 1954

No. pp.: 87

No. of copies: 7,500

Editorial Staff

Editor: Borovich, L. S., Kand. of Tech. Sci.

PURPOSE: The book is intended for design offices of plants, design organizations, and scientific research institutes.

TEXT DATA

Coverage: This monograph, No. 23 of the "Scientific and Technical Information" series, is a study of the methods of strength calculation for spur and bevel gearing, and for closed and open transmission devices of interrupted and continuous operation. They are designed as separate

Metodika rascheta zubchatykh zatsepleniy na prochnost'

AID 486 - I

units with machined steel and cast-iron toothed wheels. The steel wheels have a speed up to 25 m/sec. and the cast-iron wheels up to 10 m/sec.

This monograph is the result of scientific research work in the field of gearing recently performed in the USSR. The booklet contains tables and charts.

No. of References: None

Facilities: Division of Mechanisms of TsNIITMASH

2/2

KIST'YAN, Ya.G., kandidat tekhnicheskikh nauk; BOROVICH, L.S., kandidat tekhnicheskikh nauk, redaktor; SOKOLOVA, T.F., tekhnicheskii redaktor.

Gearing strength calculations. Nauchno-tekhnicheskaya informatsiya no.23:3-85 '54. (MLRA 7:11)
(Gearing)

KIST'YAN, Ya. G., kandidat tekhnicheskikh nauk; FRENKEL', I.M., izzhener.

Experimental determination of tooth rigidity of spur gear wheels
with external engagement. [Trudy] TSUIMTASH 81:172-182 '56.
(Gearing, Spur)
(MLRA 9:12)

AUTHOR: Solov'yev, A.I., Dotsent, Candidate of Technical Sciences 3-25-2-25/55

TITLE: Conference on Transmissions (Konferentsiya po peredacham)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # 2, pp 76 - 17 (USSR)

ABSTRACT: In September 1957, an All-Union Conference on Transmissions, convened by Odesskoye oblastnoye pravleniye nauchno-tekhnicheskogo obshchestva mashinostroyteley (Odessa Oblast' Administration of the Scientific-Technical Society of Mechanical Engineers) and the Odesskiy politekhnicheskiy institut (Odessa Polytechnic Institute) took place in Odessa. The conference was attended by 270 delegates from different plants, and scientific and educational institutions.

Professor, Doctor of Technical Sciences V.N. Kudryavtsev delivered a lecture on "Methods of Reducing the Size and Weight of Gear Transmission" in which he explained how this reduction is achieved and the industrial importance of it.

Candidate of Technical Sciences Ya.G. Kistyan (TsNIIITMash) reported on the results of Experiments in gear couplings.

A lecture on the best selection of designs and geometry of planetary reducers with an evolvent out-of-pole coupling was delivered by Professor, Doctor of Technical Sciences V.A. Yudin.

Card 1/2

Conference on Transmissions

5-58-2-23/33

The conference planned out a calculation method for gear transmissions in respect to contact and bending strength.

A report submitted by I.A. Boltovskiy referred to questions of a rational choice of coefficients of shifts and distribution of shifts among the wheels when the angle correction by means of blocking contours is used.

Dotsent K.I. Zablonskiy of Odesskiy politekhnicheskii institut (Odessa Polytechnic Institute) discussed in his lecture the problem of testing gear transmissions, Candidate of Technical Sciences Z.P. Pavlov (TsNIITMAASH) reported on the device "Uragan".

Much interest was caused by a roller machine with an original method of imitating the teeth sliding; it was manufactured at the Odesskiy tekhnologicheskii institut (Odessa Technological Institute). Engineer Kh.M. Crekov demonstrated it.

Dotsent G.I. Kogan-Vol'man's first report treated the questions of terminology, classification and normalization of transmissions with flexible shafts, while the second report dealt with the fundamentals of constructing flexible-shaft transmissions.

ASSOCIATION: Taganrogskiy radiotekhnicheskii institut (Taganrog Radiotechnical
INSTITUTE)
AVAILABLE: Library of Congress
Card 2/2

ZABLONSKIY, K.I., kand.tekhn.nauk, otv.red.; BOHOVICH, L.S., kand.tekhn.nauk, red.; BELYAYEV, M.S., inzh., red.; GRENKIN, M.D., kand.tekhn.nauk, red.; ZAK, P.S., kand.tekhn.nauk, red.; KIST'YAN, Ya.O., kand.tekhn.nauk, red.; KUDRYAVTSEV, V.N., doktor tekhn.nauk, red.; MAL'TSEV, V.P., kand.tekhn.nauk, red.; POLOTSKIY, M.S., kand.tekhn.nauk, red.; NERLIKH, L.B., kand.tekhn.nauk, red.; NIKIFOROV, I.P., inzh., red.; KOMISSARENKO, A.R., tekhred.

[Design, construction, and analysis of drives; proceedings of the conference on problems in designing, constructing, and analyzing gear drives and flexible gearing. September 23-28, 1957] Raschet, konstruirovaniye i issledovaniye peredach; trudy konferentsii po voprosam rascheta, konstruirovaniya i issledovaniya subchatykh peredach i peredach gibkoi svyaz'iu 23-28 sentyabrya 1957 g. Izd-vo Odesskogo politekhn.in-ta. Vol.1. 1958. 199 p. Vol.2. 1958. 94 p. (MIRA 12:5)

1. Odessa. Politekhnikheskiy institut.
(Gearing)

KIST'IAN, Ya.O., kand. tekhn. nauk.

Criteria for the mising of gear tooth surfaces. Vest.nash. 38
no.10:10-18 0 '58. (MIRA 11:11)
(Gearing--Testing)

Kist'yan, Ya. G.

25(1) *6.3*

PHASE I BOOK EXPLOITATION

SOV/2931

Konferentsiya po voprosam rascheta, konstruirovaniya i issledovaniy
zubchatykh peredach i peredach gibkoy svyaz'yu. Odessa, 1957

Raschet, konstruirovaniye i issledovaniye peredach; trudy
konferentsii..., vyp. 3 (Design, Construction, and Analysis of
Transmissions; Transactions of a Conference on Problems in
Design, Construction, and Analysis of Gears and Flexible
Transmissions, No. 3) /Odessa/ Izd. Odesskogo politekhn.
in-ta, 1959. 124 p. 3,000 copies printed.

Sponsoring Agencies: Odesskiy politekhnicheskii institut, and
Nauchno-tehnicheskoye obshchestvo mashinostroitel'noy
promyshlennosti. Odesskoye oblastnoye pravleniye.

Ed.: I. P. Nikiforov, Engineer; Editorial Board: L. S. Borovich,
Candidate of Technical Sciences; M. S. Belyayev, Engineer;
M. D. Genkin, Candidate of Technical Sciences; K. I. Zablonakiy,
(Resp. Ed.) Candidate of Technical Sciences; P. S. Zak,
Candidate of Technical Sciences, Ya. G. Kist'yan, Candidate of
Technical Sciences; V. N. Kudryavtsev, Doctor of Technical
Sciences; V. P. Mal'tsev, Candidate of Technical Sciences;
Card 1/5

Design, Construction (Cont.)

SOV/2931

M. S. Polotskiy, Candidate of Technical Sciences; and
L. B. Erlikh, Candidate of Technical Sciences; Tech. Ed.:
A. R. Komissarenko.

PURPOSE: This book is intended for design engineers in the machine-building and automotive industries, particularly gear designers.

COVERAGE: The technical papers contained in this book were originally presented at a conference on gear design held in Odessa in 1957. A number of papers deal with the causes of failure in modern gear drives under such severe service conditions as seizing and jamming. To determine these causes a study was made of the wear resistance of contact surfaces and the rigidity of gear teeth under load. Various gear drives and systems of engagement, including the Novikov-type gears, which are claimed to have many superior characteristics, and the double-enveloping type of worm gear drive are compared. A study is made of the rigidity of gear drives, particularly the rigidity of splined gear-to-shaft joints. A number of gear-testing methods and devices are also listed. No personalities

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Design, Construction (Cont.)

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are mentioned. References follow each article.

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<u>Kist'yan, Ya. G.</u> Experimental Testing of Seizing of Spur Gear Surfaces	3
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Diker, Ya. I. Effectiveness of Replacing Straight-spur Worm Gears With Double-enveloping Worm Gears	29
Grishel', I. N. Load-bearing Capacity of a Gear System by M. L. Novikov	41
Frenkel', I. N. Experimental Determination of the Rigidity of 30-degree Spur Gear Teeth	49
Grekov, G. M., and V. P. Mal'tsev. Method of Gear Testing on a Roller Machine	57
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Design, Construction (Cont.)

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- Semenov, Yu. S. Study of Gear Wear of Reduction Mechanisms in Electric Rock Drills 65
- Murashko, V. P., and K. I. Zablonskiy. Contact Wear Resistance of Heavily Loaded Gears With Stepped Load Increase 73
- Kuznetsov, A. P. Study of the Rigidity of Certain Elements of Automobile Transmissions 85
- Teteryachenko, V. G. Design of Teeth for the M. L. Novikov Gear Train and Some Special Features of Composite Gear Drives 91
- Tsfas, B. S. Relationship Between Load Distribution in a Splined Joint of a Gear and Shaft and the Rigidity of Components in the Joint 97
- Omirov, O. P. Maximum Value of the Coefficient of Overlap in Spur Gear Trains With External Engagement With Straight Involute Teeth and Angular Correction 103

Card 4/5

Design, Construction (Cont.)

SOV/2931

Zablonskiy, K. I. Gear-testing Installation

111

AVAILABLE: Library of Congress

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1-25-60

CHASOVNIKOV, Lev Dmitriyevich, kand. tekhn. nauk, dotsent; BOROVICH, L.S.,
kand. tekhn. nauk, retsenzent; DIKER, Ya.I., kand. tekhn. nauk,
retsenzent; KIST'YAN, Ya.G., kand. tekhn. nauk, retsenzent; POLOTSKIY,
M.S., kand. tekhn. nauk, retsenzent; KLENNIKOV, V.M., inzh., red.;
MERENSKAYA, I.Ya., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Gear transmissions; tooth and worm gears] Peredachi zatsepleniem;
zubchatye i cherviaschnye. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1961. 478 p. (MIRA 14:7)
(Gearing)

KIST'YAN, Ya.G., UNKSOV, Ye.P., doktor tekhn.nauk, prof., red.; CHASOVNIKOV,
L.D., kand.tekhn.nauk, red.; KOZLOV, A.P., red.izd-va; UVAROVA, A.F.,
tekhn.red.

[Methods for the stress analysis of gear transmissions] Metodika
rascheta zubchatykh peredach na prochnost'. Moskva, Mashgis, 1963.
243 p. (Moscow. Tsentral'nyi nauchno-issledovatel'skii institut
tekhnologii i mashinostroeniia. Trudy, vol. 107). (MIRA 16:5)
(Gearing)

ADAMENKO, S.P., kandidat tekhnicheskikh nauk; KIST'YANTS, L.K., kandidat tekhnicheskikh nauk.

Gas producers with internal cleaning of the gas from tar. Trudy
TSNII MPB no.135:34-64 '57. (MIRA 10:8)
(Gas producers)

KIST'YANTS, L.K., kandidat tekhnicheskikh nauk.

Burning producer gas in the chambers of gas turbine locomotives.
Trudy TSNII MPB no.135:65-84 '57. (MLRA 10:8)
(Gas turbine locomotives)

KIST'YANTS, L.K.; POPLAVSKIY, A.N.; OKHOTNIKOV, S.S.; MOROZOV, B.M.;
FILIPPOVA, L.S., red.; KHITROVA, N.A., tekhn. red.

[Design of burners and spray burners for heating furnaces] Kon-
struktsii gorelok i forsunok dlia nagrevatel'nykh pechei. Moskva,
Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia,
1961. 43 p. (MIRA 14:6)
(Burners) (Furnaces, Heating)

ZHARKOV, B.L., kand.fiz.-mat.nauk; KIST'YANTS, L.K., kand.tekhn.nauk

Combustion of low-grade liquid fuels in vortex-type chambers. Vest.
TSNII MPS 20 no.2:18-22 '61. (MIRA 14:3)
(Liquid fuels) (Gas-turbine locomotives)

ZHARKOV, B.L., kand.fiziko-matematicheskikh nauk; KIST'YANTS, L.K.,
kand.tekhn.nauk

Combustion of low quality fuels in a vortex combustion chamber with
cooled metal walls. Trudy TSNII MPS no.214:71-92 '61.

(MIRA 14:8)

(Gas turbines--Combustion) (Petroleum as fuel)

KIST'YANTS, L.K., kand.tekhn.nauk; POPLAVSKIY, A.N., inzh.

Use of natural gas for smelting pig iron in cupola furnaces. Trudy
TSNII MPS no.228:93-111 '62. (MIRA 15:7)
(Cupola furnaces) (Cast iron) (Gas, Natural)

KIST'YANTS, L.K., kand.tekhn.nauk; NAYMAN, L.M., inzh.

Cooling of the fire tube of a counter-flow combustion chamber.

Trudy TSNII MPS no.241:119-132 '62.

(MIRA 15:12)

(Gas turbines)

KIST'YANTS, L.K.; POPLAVSKIY, A.N.; SPIRIN, A.N.; ZOLOTUKHIN, V.N.;
PAVLENKO, I.K., inzh., retsenzent; POPOV, A.V., inzh.,
red.; BOBROVA, Ye.N., tekhn. red.

[Depot forging furnaces operated with liquid fuel, natural,
and liquefied gas] Depovskie kuznechnye gornyye na shidkom
toplivo, prirodnom i szhishennom gazakh. Moskva, Trans-
sheldorizdat, 1963. 29 p. (MIRA 16:7)

(Forge shops—Equipment and supplies)
(Railroads—Repair shops)

KIST'YANTS, L.K.; NAYMAN, A.M.; SERDELEVICH, G.Ye.; LEBEDEV, B.P.,
doktor tekhn. nauk, prof., retsenzent; VINOGRADOV, N.S.,
retsenzent; METLIKOV, E.Ye., inzh., red.

[Combustion chambers of gas-turbine locomotive engines]
Kamery sgoraniya lokomotivnykh gazoturbinskiykh dvigatelei.
Moskva, Mashinostroenie, 1965. 147 p. (MIRA 18:8)

unclassified

1955
On the Theory of Excitation of Waveguides
by A. Kuznetsov, *Izv. Vuzov, Radiofizika*, No. 1, 1955, pp. 1-10. In Russian. Calculations of the electron stream in a waveguide are usually based on a series of simplifying assumptions with regard to the form and distribution of the existing electromagnetic fields in each cross-section, shape of the cross-section of the waveguide, etc. The problem is here considered more generally and the field is determined as an arbitrary function of position of a cross-section. An arbitrary cross-section when the current in the existing combination can be represented by an arbitrary function of position and time. The cross-section is an infinitely long waveguide and the waveguide is closed at one end by a conducting wall and is considered separately.

On the theory of radio waveguide emission. Kuznetsov, O. B. *J. Tech. Phys., USSR*, 36 (No. 5) 965-76 (1966) in Russian.—The properties of the electromagnetic field inside an idealized waveguide are calculated and discussed for any arbitrary distribution of currents and charges of outer-conductors of any configuration. The results are expressed as vector functions satisfying Helmholtz equations. A. L.

KISUNKO, G. V.

contour ∂ , i.e., of the characteristic function, Φ , or Φ_n of a flat membrane with circumference S and boundary conditions $\Phi = 0$ or $\partial\Phi/\partial n = 0$, respectively. The field vectors

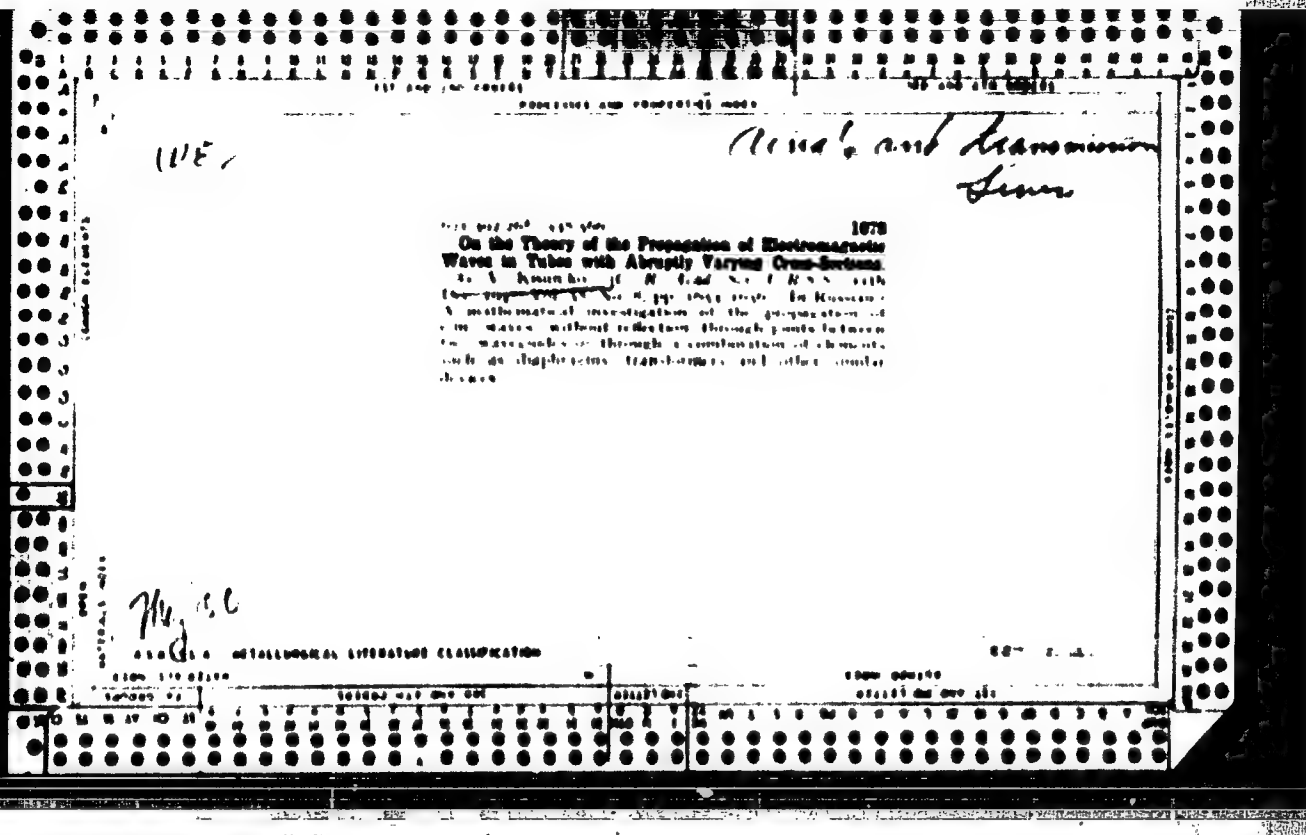
$$\left(\frac{\partial^2}{\partial x^2} - \epsilon^2 \right) \vec{a} = -\vec{a} \epsilon^2 \vec{L}, \quad \text{if } \vec{a} = \int \vec{A}_n^2 d\sigma$$

$$\Pi = \nabla \cdot \vec{C} + \sum (\epsilon_n \vec{L}_n + \epsilon_n \vec{Q}_n)$$

solutions of these equations agree in the case of an infinitely long guide in the absence of primary conductors for which

KISUN'KO, G.V.

"Fundamentals of the Theory of Electromagnetic Cavity Resonators"
(Osnovy teorii elektromagnitnykh polnykh rezonatorov), No. 1. (Voyennaya
Akademiya svyazi im. Budennogo (Military Academy of Communications imeni Budenny).
Voyennoye Izdatel'stvo, 72 pp., 144)



<p>USSR/Physics Resonators, Hollow Space Waves, Electromagnetic</p>	<p>Sep/Oct 48</p>
<p>"One Method for Approximating the Length of Electromagnetic Waves for Hollow Resonators of Irregular Shape," G. V. Kleun'ko, Cand Physicomath Sci, 104 pp</p>	
<p>"Radiotekh" Vol III, No 5 Resonator is divided arbitrarily into simple zones and resonator functions are approximated by means of zone functions. Gives detailed analysis of case of free electromagnetic oscillations in uniform isotropic dielectric volumes enclosed by cylindrical</p>	<p>20/49791</p>
<p>USSR/Physics (Contd) envelopes which are ideal conductors. Examines free oscillations in system of parallel cylinders connected to each other by longitudinal slits. Submitted 26 Jun 48.</p>	<p>Sep/Oct 48</p>
<p>20/49791</p>	

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KISOR'KO, G. V.

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KOGAN, Natan L'vovich; MASHKOVETS, Boris Mikhaylovich; TSIBIZOV,
Konstantin Nikolayevich; KISUN'KO, G.V., retsenzent;
YEMELIN, B.F., kand. tekhn. nauk, nauchnyy red.;
ODOYEVTSEVA, I.G., red.; KONTOROVICH, A.I., tekhn. red.

[Complex wave guide systems] Slozhnye volnovodnye sistemy.
Leningrad, Sudpromgiz, 1963. 355 p. (MIRA 16:4)

1. Chlen-korrespondent Akademii nauk SSSR (for Kisun'ko).
(Wave guides)

GURENKO, Boris Vladimirovich; BELYAYEV, Yuriy Konstantinovich;
SOLOV'YEV, Aleksandr Dmitriyevich; KILUN'KO, V.G., red.

[Mathematical methods in reliability theory; fundamental
characteristics of reliability and their statistical
analysis] Matematicheskie metody v teorii nadezhnosti; os-
novnye kharakteristiki nadezhnosti i ikh statisticheskiy
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